

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/584,338  
Source: IFWP  
Date Processed by STIC: 7/7/06

***ENTERED***



IFWP

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/584,338

DATE: 07/07/2006

TIME: 14:33:49

Input Set : A:\CYTHERA045NP.TXT

Output Set: N:\CRF4\07072006\J584338.raw

4 <110> APPLICANT: NOVOCELL, INC.  
 5 D'Amour, Kevin Allen  
 6 Agulnick, Alan D.  
 7 Baetge, Emmanuel E.  
 10 <120> TITLE OF INVENTION: DEFINITIVE ENDODERM  
 13 <130> FILE REFERENCE: CYTHERA.045NP  
 C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/584,338  
 16 <141> CURRENT FILING DATE: 2006-06-23  
 18 <150> PRIOR APPLICATION NUMBER: PCT/US2004/043696  
 19 <151> PRIOR FILING DATE: 2004-12-23  
 21 <150> PRIOR APPLICATION NUMBER: 60/532004  
 22 <151> PRIOR FILING DATE: 2003-12-23  
 24 <150> PRIOR APPLICATION NUMBER: 60/586566  
 25 <151> PRIOR FILING DATE: 2004-07-09  
 27 <150> PRIOR APPLICATION NUMBER: 60/587942  
 28 <151> PRIOR FILING DATE: 2004-07-14  
 30 <160> NUMBER OF SEQ ID NOS: 2  
 32 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 34 <210> SEQ ID NO: 1  
 35 <211> LENGTH: 1245  
 36 <212> TYPE: DNA  
 37 <213> ORGANISM: Homo sapiens  
 39 <400> SEQUENCE: 1  
 40 atgaggcagcc cggatgcggg atacgccagt gacgaccaga gccagaccca gagcgcgcgt 60  
 41 cccgcgggtga tggccgggct gggccccctgc ccctggggcg agtcgctgag ccccatcggt 120  
 42 gacatgaagg tgaaggcgca ggccgcggcg aacagcgag caccggccgg ggcgcgggc 180  
 43 cgagccaagg gcgagtcggc tatccggcgcc cccatggatgttcatgtt gtggctaa 240  
 44 gacgagcgca agcggctggc gcagcagaat ccagacctgc acaacgcca gttgagcaag 300  
 45 atgctggca atgcgtggaa ggcgctgacg ctggccggaga agcggccctt cgtggaggag 360  
 46 gcagagcgcc tgcgcgtgca gcacatgcag gaccacccca actacaaga ccggccggcg 420  
 47 cggcgcaagg aggtgaagcg gctgaagcg gtggagggcg gcttcctgca cggcctggct 480  
 48 gagccgcagg cggccgcgtc gggcccccggag ggccgcgcgt tgccatgga cggcctgggc 540  
 49 ctccagttcc ccgagcaggg ctccccccgc ggccgcgcgc tgctgcctcc gcacatgggc 600  
 50 ggccactacc gcgactgcca gagtctggc ggcgcctccgc tcgacggcta cccgttgc 660  
 51 acgcccgaca cgtccccgtc ggacggcggt gaccccgacc cggcttcgtt cggcccccgg 720  
 52 atgccccgggg actgccccggc ggcgggcacc tacagctacg cgcaggcttc ggactacgct 780  
 53 ggccccccgg agcctccgc cgtccccatg caccggac tcggcccgaga gcccgcgggt 840  
 54 ccctcgattc cgggccttcgt ggcgcaccc agcgccttc acgtgtacta cggcgcgatg 900  
 55 ggctcgcccg gggcgccggc cggcgccggc ttccagatgc agccgcaaca ccagcaccag 960  
 56 caccagcacc agcaccaccc cccggggcccc ggacagccgt cgcggccctcc ggaggcactg 1020  
 57 ccctgcccgg acggcacgga ccccagtcag cccgcgcggc tcctcgccggta ggtggaccgc 1080  
 58 acgaaatttg aacagtatct gcaacttcgtg tgcaagcctg agatgggcct cccctaccag 1140  
 59 gggcatgact ccggtgtgaa tctcccgac agccacgggg ccatttcctc ggtgggtgtcc 1200

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62 <210> SEQ ID NO: 2
63 <211> LENGTH: 414
64 <212> TYPE: PRT
65 <213> ORGANISM: Homo sapiens
67 <400> SEQUENCE: 2
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69   1           5           10           15
70 Gln Ser Ala Leu Pro Ala Val Met Ala Gly Leu Gly Pro Cys Pro Trp
71     20          25           30
72 Ala Glu Ser Leu Ser Pro Ile Gly Asp Met Lys Val Lys Gly Glu Ala
73     35          40           45
74 Pro Ala Asn Ser Gly Ala Pro Ala Gly Ala Ala Gly Arg Ala Lys Gly
75     50          55           60
76 Glu Ser Arg Ile Arg Arg Pro Met Asn Ala Phe Met Val Trp Ala Lys
77  65          70           75           80
78 Asp Glu Arg Lys Arg Leu Ala Gln Gln Asn Pro Asp Leu His Asn Ala
79     85          90           95
80 Glu Leu Ser Lys Met Leu Gly Lys Ser Trp Lys Ala Leu Thr Leu Ala
81     100         105          110
82 Glu Lys Arg Pro Phe Val Glu Glu Ala Glu Arg Leu Arg Val Gln His
83     115         120          125
84 Met Gln Asp His Pro Asn Tyr Lys Tyr Arg Pro Arg Arg Arg Lys Gln
85     130         135          140
86 Val Lys Arg Leu Lys Arg Val Glu Gly Gly Phe Leu His Gly Leu Ala
87  145         150          155          160
88 Glu Pro Gln Ala Ala Leu Gly Pro Glu Gly Gly Arg Val Ala Met
89     165         170          175
90 Asp Gly Leu Gly Leu Gln Phe Pro Glu Gln Gly Phe Pro Ala Gly Pro
91     180         185          190
92 Pro Leu Leu Pro Pro His Met Gly Gly His Tyr Arg Asp Cys Gln Ser
93     195         200          205
94 Leu Gly Ala Pro Pro Leu Asp Gly Tyr Pro Leu Pro Thr Pro Asp Thr
95     210         215          220
96 Ser Pro Leu Asp Gly Val Asp Pro Asp Pro Ala Phe Phe Ala Ala Pro
97  225         230          235          240
98 Met Pro Gly Asp Cys Pro Ala Ala Gly Thr Tyr Ser Tyr Ala Gln Val
99     245         250          255
100 Ser Asp Tyr Ala Gly Pro Pro Glu Pro Pro Ala Gly Pro Met His Pro
101    260         265          270
102 Arg Leu Gly Pro Glu Pro Ala Gly Pro Ser Ile Pro Gly Leu Leu Ala
103    275         280          285
104 Pro Pro Ser Ala Leu His Val Tyr Tyr Gly Ala Met Gly Ser Pro Gly
105    290         295          300
106 Ala Gly Gly Gly Arg Gly Phe Gln Met Gln Pro Gln His Gln His Gln
107  305         310          315          320
108 His Gln His Gln His His Pro Pro Gly Pro Gly Gln Pro Ser Pro Pro
109    325         330          335
110 Pro Glu Ala Leu Pro Cys Arg Asp Gly Thr Asp Pro Ser Gln Pro Ala

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111           340           345           350  
112 Glu Leu Leu Gly Glu Val Asp Arg Thr Glu Phe Glu Gln Tyr Leu His  
113           355           360           365  
114 Phe Val Cys Lys Pro Glu Met Gly Leu Pro Tyr Gln Gly His Asp Ser  
115           370           375           380  
116 Gly Val Asn Leu Pro Asp Ser His Gly Ala Ile Ser Ser Val Val Ser  
117 385           390           395           400  
118 Asp Ala Ser Ser Ala Val Tyr Tyr Cys Asn Tyr Pro Asp Val  
119           405           410

**VERIFICATION SUMMARY**  
PATENT APPLICATION: US/10/584,338

DATE: 07/07/2006  
TIME: 14:33:50

Input Set : A:\CYTHERA045NP.TXT  
Output Set: N:\CRF4\07072006\J584338.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application Number